

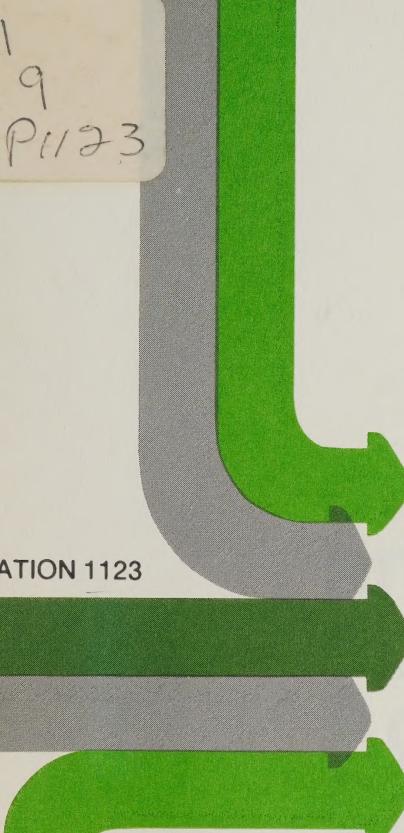
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Agriculture
Canada

Government
Publications

PUBLICATION 1123



organization and activities of Agriculture Canada



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organization and activities of Agriculture Canada



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Organization and Activities of Agriculture Canada

No nation that values its life can neglect its agriculture. It is not surprising, therefore, that in a country such as Canada the services and programs related to agriculture are many and varied. Here, special needs arise from the country's size, the variations in climate and in soils, and the federal system, which apportions responsibilities between the federal and provincial governments but also allows for joint action as needed.

When Agriculture Canada was established in 1867, the year of Confederation, it concentrated first on the most urgent need at the time, which was to control livestock diseases and prevent their entry into Canada. The formation of the Experimental Farms System followed in 1886 as a means of discovering the agricultural possibilities of various regions, and to assist farmers in making the best use of their resources. A Dairy Commissioner was appointed in 1890, and from that time the Department branched out rapidly to keep pace with the expansion of Canadian agriculture. Today, its staff numbers about 10 000 and its services derive from 38 Acts of Parliament.

This publication explains the organization on which federal services to the nation's farmers and the food industry depend. The work of the Department is carried out by eight branches and several special administrations. There is close cooperation between the federal department and provincial authorities, universities and other national and international organizations involved in agriculture.

MINISTER

Canadian
Grain Commission

Canadian
Dairy Commission

Farm
Credit Corporation

Deputy Minister

Departmental
Secretary

Canadian Livestock
Feed Board

National Farm Products
Marketing Council

Agricultural
Stabilization Board

Agricultural
Products Board

Senior Assistant
Deputy Minister
Policy and Planning



Assistant
Deputy Minister
Policy, Planning
and Economics Branch

Director General
Intergovernmental and
International Services
Branch

Assistant
Deputy Minister
Finance and
Administration Branch

Director General
Information Services

Director General
Personnel Administration
Branch

Senior Assistant
Deputy Minister
Operations



Assistant Deputy Minister
Food Production and
Marketing Branch

Assistant Deputy Minister
Health of Animals Branch

Assistant Deputy Minister
Research Branch

Coordinator
Special Advisory
Group on Grains

The Minister

The Deputy Minister

Minister's
Office



Parliamentary Secretary
Executive Assistant
Special Assistants

Deputy
Minister's
Office



Senior Assistant Deputy Minister,
Operations
Senior Assistant Deputy Minister,
Policy and Planning
Director General, Intergovernmental
and International Services
Departmental Secretary
Executive Assistant

THE MINISTER AND HIS OFFICE

The Minister, appointed by the Prime Minister, is the executive head of the Department and its highest authority. He is responsible for initiating and applying all federal legislation that affects agriculture. He reports annually to the Governor General and answers to Parliament for the activities of the Department. The Agricultural Stabilization Board, Agricultural Products Board, Farm Credit Corporation, Canadian Dairy Commission, Canadian Grain Commission, Canadian Livestock Feed Board and National Farm Products Marketing Council also come under his jurisdiction. Assisting the Minister of Agriculture in his office is a Parliamentary Secretary, who is an elected Member of Parliament appointed by the Governor in Council, and a small personal staff.

THE DEPUTY MINISTER AND HIS OFFICE

The Department's senior public servant, the Deputy Minister, is its administrative head and responsible for the work of the Department at headquarters and at regional and district centers across Canada. In meeting his broad range of responsibilities, he is aided by two Senior Assistant Deputy Ministers (operations, and policy and planning). Also reporting to the Deputy Minister is the Director General of Intergovernmental and International Services, and the Departmental Secretary who heads the Deputy Minister's staff, which also includes an Executive Assistant.

Information Services

Director
General



Director,
Operations Division



NEWS MEDIA SERVICES
PUBLIC SERVICES

Director,
Programs Division



PUBLICATIONS
RESEARCH AND
DEVELOPMENT

ADMINISTRATIVE SERVICES

Information Services carries out a broad public affairs program to inform the agriculture industry and the public about the policies, programs and activities of the Department, including new knowledge gained from its agricultural research. In pursuing its program, this branch contributes to a greater awareness by all Canadians of the importance of agriculture and its impact on the Canadian economy.

In addition to dissemination of information, the Branch ascertains and evaluates public information needs, opinions and trends; advises the Department's senior executive about public information aspects of existing and proposed policies and programs; and provides public information assistance to the Farm Credit Corporation and other outside agencies reporting to Parliament through the Minister of Agriculture.

The Director General of the Branch reports directly to the Deputy Minister and is a member of the Department's senior management committee. To inform Canadians, Information Services uses all forms of mass communication, including a *Farm Letter* sent directly to farmers explaining policies and programs. All services are provided in both official languages. The Branch has two divisions, Operations and Programs, and an Administrative Services Section which provides such support services as finance, personnel, inventory, processing, typing and transcribing.

OPERATIONS

Two sections — News Media Services and Public Services — are the components of the Operations Division.

NEWS MEDIA SERVICES

This section uses most forms of mass communication to disseminate information about the Department's work, including policies, programs and research. It is made up of five units: English Press, French Press, Audio-Visual, Speech Writing and Exhibits. There is also an interpretive writer who specializes in preparing articles based on the Department's scientific research for distribution to the popular press.

PRESS — The press units prepare news items, background information, special articles, and policy interpretation for dissemination to the mass media. The material is moved either as news releases or in weekly bulletins containing news and feature stories. The news releases and bulletins are sent to agricultural extension officers as well as to the media. *This Month with Agriculture Canada*, a bulletin containing a roundup of articles previously

released to the media, is produced for distribution to individuals, farm organizations and the agriculture industry.

AUDIO-VISUAL — This unit disseminates information on research, policy, regulatory and other activities of the Department by means of television films and daily, weekly and monthly radio tape services. Radio services include consumer-oriented programs prepared in cooperation with the Department's Food and Nutrition Services, interviews with research and regulatory officers, and taped reports relaying marketing and other information important to producers. About 10 television films are produced each year and distributed to stations across Canada. After being shown on television, the films are made available to schools, colleges, extension workers and other groups. The unit also produces film strips and slide kits, and provides photographic services for the Department. The photographic library contains about 21 000 photos.

SPEECH WRITING — This unit prepares speeches and briefing notes for the Minister, Deputy Minister and other senior executives of the Department.

EXHIBITS — The Exhibits Unit is responsible for departmental exhibits and cooperates with the Canadian Government Exhibition Commission in preparing displays for use at agricultural fairs and shows throughout Canada.

PUBLIC SERVICES

The Public Services Section disseminates information to the public on an individual basis through two units: Technical Liaison and Distribution.

TECHNICAL LIAISON — This unit provides expert replies to highly technical questions addressed to the Department by individuals, groups and governments in Canada and abroad. In addition to answering the many thousands of requests received each year for technical information, the staff members of this unit participate in radio and television programs, speak to extension and farmers' organizations about departmental programs, and arrange briefings and tours of the Central Experimental Farm for visitors.

DISTRIBUTION — The Distribution Unit handles individual requests for information that is available in printed form and distributes bulk quantities of publications to other federal departments, provincial governments, universities, schools and organizations. More than 3 million copies of publications are distributed annually.

PROGRAMS

Two sections — Publications, and Research and Development — make up the Programs Division.

PUBLICATIONS

The Publications Section writes, edits, designs and produces publications to inform agriculturists, extension workers, producers, agribusiness and the general public about departmental policies and programs, new legislation, research and other activities. It controls the distribution of certain periodicals, and coordinates the Department's publications programs with those of the provinces, through leadership and participation in the Federal-Provincial Cooperative Publishing Program. There are four units: Editorial Services, Periodicals Services, Graphic Design Services, and Production Services.

EDITORIAL SERVICES — This unit edits, rewrites and revises manuscripts from all branches and agencies of the Department, and assesses effectiveness of technical, semitechnical and nontechnical manuscripts on a variety of subjects relating to departmental programs. Its writer-editors also plan, research and write material for publication.

PERIODICALS SERVICES — This unit publishes the *Farm Letter* and the Department's two quarterly publications: *Canada Agriculture*, which features articles on work done by the Department, and *The Lighter*, which reports on tobacco production and research. It also publishes *Canadex* fact sheets by which technical information is transmitted to extension workers and others involved in the agriculture and food industry.

INTERNAL COMMUNICATIONS — This unit edits and publishes the departmental monthly newspaper, *Ag-Rapport*, and internal newsletters.

GRAPHIC DESIGN SERVICES — The artists of this unit conceive, design and prepare a wide variety of artwork for departmental publications. They also advise on visual presentations and produce layouts, illustrations, charts and graphs, film titles, and artwork for advertising purposes.

PRODUCTION SERVICES — This unit coordinates the publishing of departmental publications, carries out liaison with the Department of Supply and Services, and advises other departmental branches on publishing.

RESEARCH AND DEVELOPMENT

The Research and Development Section administers the Department's advertising programs; and plans information and public relations campaigns for special programs such as the Department's Proper Use of Pesticides Program, which is aimed at promoting safe use of these chemicals. It also provides media monitoring services for the Department and undertakes communications research to assess the potential of various media for specific information programs. It is also responsible for the Branch's performance measurement program and in this context conducts surveys of the effectiveness of Branch activities.

Intergovernmental and International Services Branch

Director General

Chief Liaison Officers

Director, Federal-Provincial Relations

Director, International Liaison Service

Director, Aid Planning Secretariat

This branch was established in 1978 to coordinate and strengthen departmental liaison with provincial governments and the agriculture and food industry in Canada. In addition, it is responsible for departmental involvement in international agricultural affairs and with such agencies as the Food and Agriculture Organization of the United Nations. The Branch is made up of Canadian and international liaison services, a federal-provincial relations directorate, and an aid planning secretariat.

CHIEF LIAISON OFFICERS

The Department is represented by a Chief Liaison Officer in each province. These officers promote consultation and cooperation with the provincial agriculture department and the private sector in their respective areas. They also provide a stronger and more visible departmental presence in agricultural and food-related matters of domestic and international concern.

FEDERAL-PROVINCIAL RELATIONS DIRECTORATE

The work of the Chief Liaison Officers is supported by the Federal-Provincial Relations Directorate, which develops and directs research and policy initiatives at the headquarters level. The Directorate coordinates departmental participation in federal-provincial conferences on agriculture and food, and prepares briefs and reports on agricultural issues of concern in the various regions. It is also responsible for coordination of activities and liaison with national industry associations and other nongovernmental organizations.

INTERNATIONAL LIAISON SERVICE

Three sections make up the International Liaison Service of the Branch.

The *International Agencies Section* maintains liaison on behalf of the Department with various international organizations concerned with agriculture. The major ones are the Food and Agriculture Organization, and World Food Program, the Organization for Economic Co-operation and Development, the Inter-American Institute of Agricultural Sciences, the World Food Council, and the Economic Commission for Europe. This section is also responsible for developing and coordinating activities under agreements on agricultural co-operation between Canada and other countries. In the area of food

aid, Agriculture Canada is the responsibility center for Canada's involvement in the World Food Program of the United Nations. The policy coordination and administrative activities associated with this responsibility are carried out by this section.

The *International Intelligence Section*, in cooperation with trade commissioners of the Department of Industry, Trade and Commerce, gathers and evaluates information on foreign agricultural policies, programs and markets, and publishes the information in the weekly *Spot News from Abroad* and the bimonthly *Agriculture Abroad*. This section also provides a briefing service for the Minister and senior officers whenever they are meeting their counterparts in Canada or abroad.

The *Foreign Relations Section* organizes and coordinates the visits to Canada of foreign agriculture ministers, scientists and specialists, as well as the visits to other countries of the Minister and agriculturists from Canada. It also acts on behalf of the Department on agricultural matters involving foreign embassies, and coordinates the placement in Canada of agricultural trainees from abroad. These activities are carried out in cooperation with the Chief Liaison Officers.

AID PLANNING SECRETARIAT

This section serves as the center for recruitment of departmental experts to assist the Canadian International Development Agency with agricultural projects undertaken in developing countries. It is also responsible for coordinating Agriculture Canada's participation in the activities of the Trade Commissioner Service of the Department of Industry, Trade and Commerce.

Finance and Administration Branch

Assistant
Deputy Minister

ADMINISTRATION DIVISION
DATA PROCESSING DIVISION
FINANCIAL ADMINISTRATION
DIVISION
INTERNAL AUDIT DIVISION
MANAGEMENT CONSULTING
SERVICES
LIBRARIES DIVISION

The Finance and Administration Branch advises the Deputy Minister and other senior officers of the Department on all matters affecting administration, with the exception of personnel. Through six divisions, the Branch provides many services to the Department as a whole. It is also responsible for controlling financial and administrative functions carried out by the operational branches and agencies of the Department.

ADMINISTRATION DIVISION

The Administration Division is made up of five functional sections: materiel management, administrative services, architectural and engineering, property management, and emergency planning. The Division is also responsible for administering the Department's internal energy conservation program.

MATERIEL MANAGEMENT

Materiel Management comprises four main areas: procurement, supply, transportation, and inventory accounting. This section provides specialist advice in all these areas, recommends procedures for their control throughout the Department, and administers policies and regulations that apply to them.

In particular, it is concerned with purchasing procedures and contract administration, the movement of materiel, staff travel and removal, management of the departmental motor vehicle fleet, the maintenance of supplies, distribution and warehousing systems, and the development of departmental materiel management operating directives. In carrying out its work, the Materiel Management Section works closely with all branches and agencies of the Department, the Treasury Board Secretariat, and the Department of Supply and Services.

ADMINISTRATIVE SERVICES

This section is responsible for mail, messenger, records management, duplicating, parking, telecommunications, parliamentary returns and other services in the Department's Ottawa headquarters building. It also administers and promotes the departmental incentive awards programs. Beyond the headquarters building, the section functionally controls provision of the above services in other establishments throughout the Department and gives advice and guidance on their operation.

PROPERTY MANAGEMENT

Property Management provides a general real estate service within the Department, advising senior management and the operating branches of the Department on the purchase, disposal and effective use of property — land, buildings and office space. This section works closely with Public Works Canada in administering accommodation and in planning new construction. It also maintains records of all departmental property holdings, with supporting legal documents; arranges for land survey and appraisal services; reviews utilities supply arrangements; cooperates with the Dominion Fire Commissioner on fire prevention, and directs other protective and security measures for departmental premises.

ARCHITECTURAL AND ENGINEERING

The Architectural and Engineering Section provides advisory and design services in connection with the construction of new buildings or modifications to existing ones. It also assists departmental field stations in the maintenance of buildings and facilities, and provides expert assistance in the event of a breakdown of major mechanical or engineering equipment. The section collaborates with Public Works Canada and with the Division's Property Management Section in the planning, scheduling and execution of construction projects, including laboratory buildings as well as special-purpose agricultural facilities. The section also provides technical support to the Department's internal energy conservation program.

EMERGENCY PLANNING

This section is responsible for the development of preparedness plans to ensure adequate inspection and regulation of agricultural products and services in the event of a national emergency. The Department must be prepared to ensure the quality and wholesomeness of all food products (except those of fisheries); to direct farm production; to control plant and animal diseases and insect pests; and to assess farms, crops and livestock for effects of radiation.

Officers of this section conduct training courses, and maintain liaison with provincial departments of agriculture, other federal departments, the Privy Council Office and Emergency Planning Canada. They are also responsible for liaison with the United States and other members of NATO in emergency planning matters.

DATA PROCESSING DIVISION

This division provides centralized advisory and development expertise on scientific and administrative data processing applications. It supplies a full range of computer analysts, programming and computer services to the Department. Its main staff and installations are located in the Sir John Carling Building in Ottawa, but some staff members are assigned to the Western Grain Stabilization Program at Winnipeg, and to Research Branch stations at Lacombe, Lethbridge, Saskatoon, Swift Current, Brandon and Kemptville.

Computing requirements to support research on soil, crops, environment and animals are met by using real-time, time-sharing and batch-processing technology. Other applications are in the administrative, regulatory and econometric fields.

The Division makes extensive use of low- and high-speed terminals linked with commercial and university facilities across Canada. The departmental time-sharing system has a series of terminals in the Ottawa-Hull area serving the Animal, Chemistry and Biology, Engineering and Statistical, and Animal Diseases Research Institutes, the Policy, Planning and Economics Branch and others. In addition, terminals serve the Canadian Grain Commission at Winnipeg and Research Branch stations at Kentville, Fredericton, Ste. Foy, Lennoxville, Smithfield, London, Regina, Beaverlodge, Morden, Delhi and Vineland.

FINANCIAL ADMINISTRATION DIVISION

This division is responsible for departmental systems of financial administration. It advises management on the financial implications of decisions at both the planning and operational stages, and on the application of legislative, regulatory and other requirements governing financial administration in the federal government. The Division is also responsible for the development, introduction and maintenance of financial administrative systems, and for providing guidance on the organization, direction, staffing, performance and training of financial units in the Department. The Division has four sections.

FINANCIAL PLANNING AND ANALYSIS

The Financial Planning and Analysis Section assists in the development of departmental policies and procedures for the preparation of program forecasts; provides advice in the review of financial plans,

and develops procedures for the annual preparation, consolidation and review of departmental estimates and for their approval by departmental management, Treasury Board and Parliament. It also advises and assists in resource allocations; analyzes financial and budgetary data, and provides departmental management with current financial information showing the implications of both long- and short-term operational plans guiding management in the decision-making process.

FINANCIAL POLICIES AND SYSTEMS

This section determines accounting requirements, and implements and maintains accounting systems throughout the Department. Such systems include: revenue and accounts receivable, inventory, commitment control, payroll, financial reporting, classification of accounts, coding, and the production and maintenance of accounting manuals. This is an advisory service to all branches and agencies of the Department on accounting systems and the application of cost standards used in financial planning, control and performance evaluation. This section also develops training policies and maintains the budgetary control and reporting system used by management at all levels, including a variance reporting system used to record the achievement of program objectives and departures from plans.

DEPARTMENTAL ACCOUNTING SERVICES

This part of the Financial Administration Division determines the requirement for and maintains departmental control over expenditures, revenues and commitments, and assists in the development of control systems and procedures in these areas. It makes arrangements for delegation of signing authorities and ensures that financial systems and controls are being maintained in accordance with relevant acts, regulations and procedures.

It is responsible for centralized cash control, banking and interdepartmental financing, and coordinates the collection, consolidation and preparation of statistical data and various departmental reports, including public accounts, cash forecasts and manpower utilization.

FINANCIAL MANAGEMENT COORDINATION

This section provides financial management coordination of activities within the administration program covering such items as planning, budgeting, accounting procedures, preaudit, allotment and commitment control; and advises program management and operating staff on such matters.

INTERNAL AUDIT DIVISION

Internal Audit carries out a program of audit review and evaluation to provide senior management with an independent appraisal of the effectiveness of the financial administrative systems and of the extent of compliance with financial policies, regulations and directives. The program covers all departmental branches, the Agricultural Stabilization and Agricultural Products Boards, and the Canadian Grain Commission.

The specialists of the Division are professionally trained and experienced in accounting and auditing. The Division is located at Ottawa, but its activities extend to all departmental establishments in Canada. Much of the auditing of field establishments is carried out by the Audit Services Bureau, Department of Supply and Services, on behalf of the Division.

MANAGEMENT CONSULTING SERVICES

This division provides two main services: management consulting, and forms and paperwork improvement. These services are available to all managers in the Department and associated commissions and boards. Although the Division is located in Ottawa, the services are available to departmental establishments throughout Canada.

MANAGEMENT CONSULTING GROUP

This group helps managers to solve problems that affect the performance of their staff. This is usually done by analysis of problems through project assignments. The group is composed of consultants with a wide range of experience in management, organization analysis, administrative, information and computer systems methods, manpower and resource utilization, planning, project management, office equipment and space layout. They have varied experience in undertaking assignments to solve specific operational problems or to develop completely new approaches.

FORMS AND PAPERWORK IMPROVEMENT GROUP

This section seeks to minimize paperwork problems and paperwork processing costs. It undertakes general paperwork reviews and forms analyses on request, and provides a design service for all forms of a special nature to the Department. It is responsible for bringing a central focus to bear on all departmental forms to ensure consolidation and standardization, and implementation of the bilingualism and federal identity programs.

LIBRARIES DIVISION

In addition to its headquarters unit in Ottawa, the Libraries Division maintains a network of 24 field libraries across Canada. Its resource collection — numbering more than a million volumes — includes depository collections of the Food and Agriculture Organization of the United Nations, the United States Department of Agriculture, and the Instituto Interamericano de Ciencias Agricolas de las OEA (Inter-American Institute of Agricultural Sciences, OAS). Some of its specialized collections are rated among the world's finest. The Division also manages more than 2000 publication exchange agreements in some 80 countries.

The Division provides a comprehensive information and documentation service to support departmental programs and to meet the needs of the Canadian agricultural community. It subscribes to five major on-line information systems, providing access to more than 100 bibliographical data bases. The Division also serves as a center, with national responsibility for agricultural sciences, for the Selective Dissemination of Information System. This extensive, computerized service makes it possible for research scientists and agricultural officers to keep abreast of the latest information in their fields.

Other services include intradepartmental circulation of current journals, processing of departmental subscriptions, and coordination of requests for translation of foreign scientific publications.

The Division represents the Department in the planning and development of national and international information systems for agricultural and related sciences, and it maintains liaison and cooperation with international information centers. It also serves in a consultative capacity in establishing information services in foreign countries.

Personnel Administration Branch

Director General



OFFICIAL LANGUAGES DIVISION
CLASSIFICATION DIVISION
FIELD PERSONNEL
PROGRAMS DIVISION
STAFFING AND
DEVELOPMENT DIVISION
STAFF RELATIONS DIVISION

The Personnel Administration Branch develops, administers and controls personnel policies and programs for about 10 000 employees of the Department, in all six categories of employment, at various locations across Canada.

The Branch advises the Deputy Minister and other senior officers on personnel policies and practices, to assist them in making the most effective use of staff. It provides guidance to all personnel administrators in the Department on the application of policies, regulations and procedures, and it provides an internal audit service to measure the effectiveness of the administration of both the classification and staffing functions.

OFFICIAL LANGUAGES DIVISION

The Official Languages Division assists the Department in attaining bilingualism and biculturalism goals as outlined by the Deputy Minister to comply with the Official Languages Act, the Parliamentary Resolution on Bilingualism, and governmental directives relating to official languages policy.

The Division advises senior management on the implications of bilingualism policies and the effects they may have on departmental programs. It is also responsible for the development, planning and implementation of all policies and programs relating to bilingualism, including second-language training, testing, position identification, dissemination of information, complaint investigation and resolution, and terminology and linguistic research. The Division also maintains budgetary controls on all aspects of departmental bilingualism programs.

CLASSIFICATION DIVISION

The Classification Division administers the Department's position classification program. It trains departmental managers who have extensive delegation of authority to classify positions, and provides advice on the policies, practices and application of the classification system, including dealing with employee classification grievances at the headquarters and area personnel office levels. It also provides advice to senior management on the most effective organizational structures within the limitations imposed by the Federal Government's restraint programs concerning senior positions.

FIELD PERSONNEL PROGRAMS DIVISION

The Field Personnel Programs Division provides advisory and support services in personnel administration to line managers across Canada. This is done through the Division's headquarters in Ottawa, and through regional offices at Moncton, Montreal, Ottawa, Toronto, Winnipeg and Calgary, and district offices at Winnipeg, Saskatoon, Calgary and Vancouver.

The Division works closely with the Treasury Board, Public Service Commission and other central agencies in providing interpretations of various acts and regulations and of collective agreements as they apply to the Department. It also administers staff pay, develops communication methods, prepares and distributes directives on policy and procedures, and updates the departmental *Personnel Manual*.

STAFFING AND DEVELOPMENT DIVISION

The Staffing and Development Division plans, organizes and implements staffing, manpower planning, and training and development programs for all employees of the Department. This is accomplished by recruiting manpower based on immediate needs and on program forecasts; by evaluating manpower resources to determine training requirements; and by developing and implementing appropriate training policies, programs and courses. The Division is also responsible for coordination of Equal Opportunities for Women programs.

STAFF RELATIONS DIVISION

The Staff Relations Division is functionally responsible for the correct implementation of all wage and benefit provisions as established through collective agreements and regulations. These responsibilities include participation, in cooperation with management, in the negotiation of collective agreements; preparation of guidelines and provision of advice to line managers and personnel advisers on correct interpretation of collective agreements; development of departmental policies related to leave, discipline, etc.; advice to line managers on the handling of employee grievances and disciplinary matters; and initiation and administration of the Department's occupational health, safety and security programs.

The Division assists in the training of personnel advisers and line managers in the skills necessary to perform effectively in a unionized environment; and initiates the establishment of labor-management

consultation programs to ensure a continuing dialogue between union and management at all levels. In carrying out these activities, the Division maintains liaison with employee organizations, the Public Service Commission and the Treasury Board.

Policy, Planning and Economics Branch

Assistant Deputy Minister

Director General
Agricultural Development

Director General
Market Analysis and
Trade Policy

Director General
Planning and Evaluation



PRODUCTION ANALYSIS DIVISION
REGIONAL DEVELOPMENT
ANALYSIS DIVISION



COMMODITY MARKET
ANALYSIS DIVISION
FOOD MARKETS ANALYSIS DIVISION
INTERNATIONAL TRADE
POLICY DIVISION



PLANNING DIVISION
EVALUATION DIVISION

ADMINISTRATION DIVISION

The major responsibilities of the Policy, Planning and Economics Branch are to advise the Deputy Minister and other senior executives of the Department on policy and program development and on establishment of departmental plans and priorities. In carrying out these responsibilities, the Branch works closely with the operating branches of the Department, other federal departments and agencies, provincial governments and all components of the agriculture and food system.

AGRICULTURAL DEVELOPMENT DIRECTORATE

The work of this directorate, which includes such functions as the monitoring of farm income and costs and the analysis of market factors affecting farm production, provides information essential for agricultural development programs. There are two divisions.

PRODUCTION ANALYSIS DIVISION

Production Analysis is responsible for providing advice on commodity price stabilization plans and on their coordination with provincial programs. To do this, it monitors farm income and costs, and the farm industry structure; provides analytical support in the development of commodity price formulae; and coordinates analyses of those market factors that have a major bearing on farm production. The Division also provides the statistical support services necessary to meet the policy and economic analysis needs of the Branch.

REGIONAL DEVELOPMENT ANALYSIS DIVISION

This division, with staff at Ottawa and at several regional centers, carries out analytical work to assist the regional operations of the Department and to help in relating regional initiatives and opportunities to the national perspective. As part of its work, the Division participates with the provincial governments and the Department of Regional Economic Expansion in designing and implementing regional development subsidiary agreements and initiatives related to the agriculture and food system.

MARKET ANALYSIS AND TRADE POLICY DIRECTORATE

The Market Analysis and Trade Policy Directorate carries out research and analyses, and develops policies relating to agricultural commodity and food markets. Another responsibility of the Directorate is to advise departmental executive on international trade policies

and their impact on Canada's agriculture and food industry. It has three divisions.

COMMODITY MARKET ANALYSIS DIVISION

This division provides information on markets for agricultural commodities, develops policies relating to these markets and conducts the research necessary to carry out these functions. Its responsibilities include the annual Outlook Conference, quarterly Market Commentaries, and provision of markets information on a continuous basis to departmental executives, other federal departments and the agriculture industry.

FOOD MARKETS ANALYSIS DIVISION

The main responsibilities of this division are to provide market information and to develop policies for that part of the food system beyond the farm gate — processing, transportation, storage, wholesaling and retailing. This involves research on the structure, conduct and performance of food markets and assessments of the impact on both the food industry and Canadian consumers of a variety of policies, including those concerned with transport, tariffs, taxation, regulations and competition.

INTERNATIONAL TRADE POLICY DIVISION

This division provides the primary contact between the Department and other federal departments, provincial agencies, and producer and agribusiness groups on matters concerning international trade. It advises on the impact of international trade policies on the Canadian agriculture and food system and its work complements the market development activities of the Food Production and Marketing Branch. The Division also takes the leading role in preparing position papers on trade policy issues and represents the Department in trade policy discussions.

PLANNING AND EVALUATION DIRECTORATE

This directorate supports the senior executive of the Department in planning and in setting priorities, and it is responsible for the evaluation of all departmental activities. It has two divisions.

PLANNING DIVISION

The major responsibilities of this division are to support the Deputy Minister and other senior executives in defining and establishing

departmental strategies, plans and priorities, and to coordinate planning activities throughout the Department. This work is performed in close cooperation with the planning units in each of the operating branches of Agriculture Canada, as well as with the other directorates of the Branch and the Finance and Administration Branch.

EVALUATION DIVISION

The role of the Evaluation Division is to develop departmental evaluation policy and guidelines; provide staff support for the departmental Program Evaluation and Audit Committee; provide functional direction and advice to branches on matters concerning evaluation policy, activities and plans; and coordinate evaluation and audit plans within an overall departmental plan. The Division is also responsible for developing and implementing a cyclical departmental program evaluation plan and for performing evaluations of all departmental program components and activities.

Food Production and Marketing Branch

Assistant
Deputy
Minister

Director General
Quality
Assurance

Director General
Market
Development

Director General
Production
Development

Director General
Operations

LIVESTOCK AND POULTRY DIVISION
PRODUCE, DAIRY AND
PROCESSED FOOD DIVISION
PLANT PRODUCTS AND
QUARANTINE DIVISION
LABORATORY SERVICES DIVISION

FOOD AND NUTRITION SERVICES
MARKETING SERVICES DIVISION
MARKET IMPROVEMENT DIVISION

ANIMAL PRODUCTION DIVISION
PLANT PRODUCTION DIVISION
RACETRACK SUPERVISION DIVISION
FARM DEVELOPMENT DIVISION

REGIONAL OFFICES

PROGRAM SERVICES DIVISION (finance and administration)
PLANNING AND EVALUATION DIVISION

The objective of the Food Production and Marketing Branch is to assist in the continued development of a market-oriented, total food system designed to supply safe, nutritious food at reasonable prices to consumers in Canada and abroad, and to provide equitable returns to producers, processors and marketers. For this, it seeks to ensure public confidence in the quality of agricultural food products; to ensure the availability and quality of plant and support items necessary for agricultural production; to improve the efficiency of marketing in the agriculture and food system to the benefit of Canadian agricultural producers and domestic and international consumers; and to enhance the socioeconomic environment for those engaged in the agriculture and food industry.

The work of the Branch is organized according to function and within the function is further divided into specialized divisions. Through its field offices and specialists across Canada, the Branch keeps in contact with producers, processors, distributors, the retail trade, and specialists with provincial departments of agriculture and universities.

Three of the Branch's four directorates are concerned with the development of policies and programs, while the fourth — Operations — is responsible for their application across Canada.

QUALITY ASSURANCE DIRECTORATE

This directorate establishes and maintains standards of quality, safety and effectiveness for agricultural products and agricultural inputs (feed, fertilizers, pesticides, etc.). It ensures that consumer food products and the products essential to modern agricultural production meet the standards set for these products and that the standards reflect the needs of the consumer and producer sectors of the food system. The Directorate has four divisions.

LIVESTOCK AND POULTRY DIVISION

This division is responsible for establishing, implementing and maintaining quality and labeling standards for livestock carcasses (beef, pork, veal and mutton), shell eggs, egg products and eviscerated poultry. Its policies and programs are designed to ensure consumer acceptance of these products. In addition, the Division develops standards of sanitation for, and monitors conditions in, hatcheries supplying replacement stock to poultry producers. It also sets quality requirements for imported hatching eggs, chicks and poult.

PRODUCE, DAIRY AND PROCESSED FOOD DIVISION

This division is concerned with the establishment, implementation and maintenance of standards concerning quality, wholesomeness and labeling of fresh fruits and vegetables, and dairy products and other processed foods.

The work of the dairy section assures uniformity in the inspection of dairy plants across Canada and that the products manufactured in these plants are of high quality to meet consumer demands. Labeling is also controlled to provide consumers with easily understood indications of quality and quantity of prepackaged dairy products. The section also works with dairy farmers and with various federal and provincial agencies to develop programs dealing with the various aspects of milk quality. The programs cover such areas as farm operations, and biochemical and bacteriological standards for raw milk. The dairy program has twin objectives: to help the producer obtain a better return for his product and to provide the consumer with top-quality products.

The fruit and vegetable section administers legislation concerning fresh and processed fruits and vegetables, as well as honey and maple products. It advises and assists producers, processors and distributors on the processing and grading of their products; licenses interprovincial and international dealers and brokers in fresh produce, and investigates complaints from shippers and receivers. Processing plants and fresh-produce warehouses are registered and monitored by this section, which also keeps processors and packers advised of new methods and equipment.

The Division maintains close contact with other federal departments and provincial agriculture departments, and works closely with the United States Department of Agriculture.

PLANT PRODUCTS AND QUARANTINE DIVISION

The programs and policies of this division are concerned with two areas of importance to Canadian agriculture — ensuring the quality of the products used for production (seed, fertilizers, pesticides and animal feeds) and protecting crops and forests by preventing the entry into Canada or the spread within the country of destructive plant pests and diseases.

The programs safeguarding the quality of agricultural input products include inspection and certification of crop seed and seed potatoes, licensing of new plant varieties, and testing and registration of commercial fertilizers, feeds and pesticides to ensure that these products are useful and are safe to humans, animals and the environment when used properly.

Plant quarantine systems are developed by the Division to prevent, or at least minimize, the introduction and spread of insects and plant diseases that could seriously affect the ability of Canada's agriculture and forestry industries to meet market demands at home and abroad.

Divisional specialists also work closely with authorities in countries around the world to ensure that quarantine restrictions affecting the movement of products are biologically necessary.

LABORATORY SERVICES DIVISION

The Laboratory Services Division provides analytical testing services to other departmental divisions engaged in the enforcement of quality-assurance legislation.

The Division has four commodity laboratories (feed and fertilizer, pesticide, seed biology, and food) at Ottawa and a regional laboratory at Calgary. In addition to providing general testing services for Western Canada, the Calgary laboratory plays a broader role as the responsibility center for the testing of disinfectants and formulated pesticides.

Collaborative test and referee programs are maintained by the Division to assure the accuracy of testing at the Branch's regional dairy and seed laboratories, and at the commercial laboratories accredited by the Branch to provide testing services for the seed, grain and dairy industries.

The pesticide laboratory at Ottawa also provides analytical standards to federal and provincial laboratories engaged in pesticide-residue analysis for consumer protection, and coordinates this work on behalf of the federal interdepartmental committee on pesticides.

Some 50 000 samples from 45 product groups are tested by the Division each year. Many testing techniques are used, including chemical, microscopic, bioassay and field-plot tests.

MARKET DEVELOPMENT DIRECTORATE

The Market Development Directorate identifies current and potential marketing problems within the food system, recommends strategies to overcome them, and integrates its programs with others within the Department, and with those of other federal departments and agencies, the provinces and the private sector. Its main areas of attention are meat, poultry and dairy products; produce and grocery products; and grains, oilseeds and special crops. The Directorate consists of two divisions — Marketing Services and Market Development — and food and nutrition advisory services.

FOOD AND NUTRITION SERVICES

This component of the Market Development Directorate provides advice on food and nutrition to consumers, industry, educators, other branches of Agriculture Canada and other federal departments, and to provincial agriculture departments. Its staff of food consultants at Ottawa also serve in a liaison role in national promotional and educational programs on food and nutrition.

Information on the selection, purchase, preparation, preservation, safety and nutritive value of foods is conveyed to household consumers through the Department's press, radio and television services, and publications. Institutional food service managers are kept informed by means of publications and bimonthly bulletins. Much of the information is obtained from experimentation in the Food and Nutrition Services' laboratories.

Through a program of food evaluation, assistance is given in the revision or establishment of food grades and other quality standards. The staff of food consultants also relay consumer viewpoints about agricultural food products to departmental officers, and assist them in assessing the effect of government policy on nutrition and the effect of nutrition programs on the agriculture industry.

MARKETING SERVICES DIVISION

This division is responsible for the promotion and upgrading of the marketing services of the Branch for the ultimate benefit of producers and the food system. It administers the Agricultural Products Marketing Act and the Agricultural Products Cooperative Marketing Act.

The Agricultural Products Marketing Act enables federal marketing powers to be extended to provincial marketing boards to control provincial produce destined for interprovincial and international trade. The Agricultural Products Cooperative Marketing Act enables initial payments to be made to producers who wish to market their products cooperatively. The Division maintains close liaison with provincial and national marketing agencies to encourage use of this legislation.

The Markets Information Section of the Division assembles and compiles data collected by field officers of the Branch on commercial marketings of livestock, fruits and vegetables, dairy and poultry products, grain and special crops. It relays a wide range of current statistical market reports based on this data to producers, processors, distributors and government personnel to assist them in making marketing decisions.

MARKET IMPROVEMENT DIVISION

The Market Improvement Division works closely with other federal departments and agencies, provincial governments, producer and trade organizations on a variety of projects relating to market research and development, and product promotion. These projects are aimed at the expansion of existing markets, identification of new market opportunities, and improvement of all sectors of the marketing system. The Division also works with farm product marketing agencies and other agribusiness groups on market organization and distribution systems, to promote and improve efficiency in the movement of agricultural products in the food distribution chain.

PRODUCTION DEVELOPMENT DIRECTORATE

The work of this directorate is aimed at promoting thriving and efficient grains, special crops, livestock, poultry and wool industries in Canada, and in cooperation with the provinces, at helping farmers to protect themselves against financial setbacks arising from crop losses caused by natural forces. Its responsibilities also include supervision of racetracks and pari-mutuel betting.

ANIMAL PRODUCTION DIVISION

This division is responsible for all programs and policies aimed at increased efficiency in the production of meat, milk, wool and eggs. The Division provides expertise in genetics, nutrition and management for the production of dairy and beef cattle, swine, sheep and poultry. Most activities are found in three main areas: the transfer of new technical and research findings to the field for application; the national coordination of various activities with provincial governments and industry groups; and the enforcement of regulations affecting the producer and the industry.

In livestock production, the Division works in cooperation with provincial agriculture departments and other agencies in administering livestock improvement programs. It supervises the issuance of registration and transfer certificates for purebred livestock; provides testing and record-keeping services for record-of-performance programs for dairy and beef cattle, swine and sheep; administers sire loan and other livestock improvement policies; supports the work of the 4-H Club Council, and makes grants to fairs and exhibitions.

A 'Showcase Herd' of beef and dairy cattle is maintained to show potential buyers samples of good cattle that are available on Canadian farms.

PLANT PRODUCTION DIVISION

Plant Production coordinates departmental activities in the areas of grain, oilseeds, special crops, and crop insurance. The primary objectives are to promote a sound and viable field crop industry, and to stabilize net farm income in this sector of Canadian agriculture.

The Division formulates and recommends management and operational functions associated with grain, oilseed and special crop production policies, and with the development of new crops. It also seeks to raise and stabilize net farm income through the implementation of programs designed to promote balanced production and orderly marketing of the various crops. The Division currently administers the Western Grain Stabilization, Two-Price Wheat and the Advance Payments for Crops programs, the New Crop Development Fund, and a grain storage program. It also coordinates a program to eradicate wild oats in the principal grain-producing areas.

Another important function of the Division is the administration of the Crop Insurance Act and of special assistance programs that are established in areas in times of unusually severe crop losses.

The Crop Insurance Act provides for federal contributions toward premium and administration costs of provincially operated insurance programs; and for either making loans to the provinces to pay indemnities in excess of reserves or reinsuring a major portion of the provincial risk involved in crop insurance programs. In 1977-78, contributions to the provincial programs amounted to \$73 million.

The Division works closely with other federal departments and agencies, provincial governments, and producer and other organizations to maintain a coordinated approach to the field crop industry. Officers of the Division and those from the Department of Industry, Trade and Commerce and Transport Canada form the Grains Group, which focuses on the issues and problems in the grain industry.

RACETRACK SUPERVISION DIVISION

Responsibility for the regulation and supervision of pari-mutuel betting on horse races has rested with Agriculture Canada since 1921. The establishment of the Racetrack Supervision Division in 1978 was the culmination of an evolution of responsibility that began with a small Ottawa-based unit and with the actual supervision being carried out under contract with the Royal Canadian Mounted Police. Today the supervisory service is provided by divisional personnel. In addition to the Ottawa office, the Division has offices at Vancouver, London, Toronto, Montreal, Saint John and Halifax.

The Division consists of the Director's office and two sections — Operations, and Policy, Planning and Research. Its activities cover

four areas: race surveillance, supervision of pari-mutuel betting, administration, and collection of the federal levy on wagering.

In meeting its responsibilities to protect the betting public, the Division assigns pari-mutuel race dates; approves betting systems and facilities; provides photo finish, race patrol (videotaped and filmed coverage of races) and drug testing services; supervises, controls and audits all pari-mutuel betting activity, and collects and publishes statistics. The Division's activities are carried out at more than 100 tracks, which operate a combined total of some 4400 race days annually.

The Division operates on an annual budget of about \$7.8 million which is met by a levy (currently 0.5%) on all bets. Betting on thoroughbred, standardbred and quarterhorse races exceeds \$1.2 billion annually in Canada. A full-time staff of 68 and a seasonal staff of 120 are employed by the Division.

FARM DEVELOPMENT DIVISION

The Farm Development Division keeps farmers abreast of the latest information on technical developments and farm economics to help them make sound management decisions. The information on livestock and crops management and farm business development is made available to the agricultural community in a number of ways, although most is relayed through extension officers and others who work directly with farmers. The administration of the Feed Freight Assistance Adjustment Fund is another divisional responsibility.

OPERATIONS DIRECTORATE

The programs and policies of the Food Production and Marketing Branch are carried out by the Operations Directorate through its eight regional offices. These are located in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec and Newfoundland, while the eighth office serves Prince Edward Island, New Brunswick and Nova Scotia. Within each region staff are strategically located according to the structure of the food production and marketing system and the specific nature of Branch programs. The operations of this directorate range from dairy product inspection to supervision of stockyards.

DAIRY — Dairy plants are inspected for compliance with prescribed standards of operation. Products such as cheese, butter, ice cream and skim milk powder are inspected at various levels from manufacture to sales to ensure they meet quality standards and labeling requirements.

EGGS AND POULTRY — Staff of the Directorate administer grade and other quality standards for eggs, egg products and processed poultry, and inspect (for compliance with operational standards) the 656 registered egg grading, and poultry and egg processing stations in Canada. Inspectors also check samples of graded products to ensure that they meet quality standards. Imported products and those destined for the export market are similarly inspected.

FEEDS, FERTILIZERS AND PESTICIDES — These products are inspected in the trade from the manufacturer to the user. In addition, the field staff take samples for analysis to further ensure that the products meet established standards for usefulness, safety and accuracy of representation.

FRUITS AND VEGETABLES — Fresh and processed fruits and vegetables produced in Canada or imported for the domestic market are inspected for compliance with regulations governing grade, packaging and marketing. Products being exported are inspected and certified as to grade. The Directorate's field staff also keep processors and packers advised of new methods and equipment.

MEAT AND WOOL — Field staff grade or supervise the grading of beef, veal, hog, lamb and mutton carcasses at 191 inspected and approved slaughtering plants across Canada. They also supervise the grading of wool marketed through registered warehouses.

PLANTS AND PLANT MATERIALS — Imported plants and plant products are inspected at ocean ports and on importers' premises and shipments found to infested may be treated or they may be destroyed or returned to the country of origin. Permits are required for the importation of all plant material into Canada. Certain plants and plant products, insects and disease organisms are permitted entry for research and educational purposes only.

Inspectors examine and certify plant material for export; inspect flour mills, terminal elevators, warehouses, and ships that are loading export cargoes of Canadian grain. They also supervise the fumigation of plant materials, grain elevators, warehouses and ships' holds when such action is required and they enforce domestic quarantines to restrict the spread of insects and plant diseases from one area to another.

SEEDS — Field inspection of pedigreed seed crops and inspection and certification of the seed is carried out by the Directorate. Field, bin and shipping inspections are required for seed potatoes.

STOCKYARDS — Supervision of the administration of Canada's eight terminal stockyards is the responsibility of the Operations Directorate.

The areas of supervision include bonding of commission merchants, livestock dealers and cooperative sales agencies, and the inspection of shippers' trust accounts.

Health of Animals Branch

Assistant
Deputy Minister

ANIMAL HEALTH DIRECTORATE
MEAT HYGIENE DIRECTORATE
OPERATIONS DIRECTORATE
Quarantine Stations
Regional Offices
ANIMAL PATHOLOGY DIVISION
Animal Diseases Research Institutes
Regional Laboratories
EDUCATION AND
DEVELOPMENT DIVISION

The work of the veterinarians of the Health of Animals Branch is aimed at protecting the health of the country's livestock and at ensuring the supply of wholesome meat to the public. The programs of the Branch promote animal disease research and control, ensure the humane slaughter of food animals, and enforce meat inspection regulations. The annual cost of these programs is about \$93 million, of which \$10 million is used to compensate owners for animals ordered slaughtered because of contagious diseases.

The Branch is headed by an Assistant Deputy Minister. Policy planning and evaluation activities as well as operational management and coordination are provided through four directors general at Ottawa. Seven regional veterinary directors, one in each province except the Atlantic Provinces which are classed as one region, supervise the work of regional offices and the animal health and meat hygiene functions in their regions. Eight laboratories across Canada conduct research on animal diseases and provide diagnostic services.

ANIMAL HEALTH DIRECTORATE

The objective of the Animal Health Directorate is to maintain the country's livestock population free from contagious and infectious diseases. This directorate, operating under the authority of the Animal Disease and Protection Act, controls and regulates the importation of animals and animal products, eradicates exotic diseases when they gain entry into Canada, controls and eradicates established diseases, and is responsible for the certification of livestock for export.

The Director General develops and evaluates national policies on disease control and reports to the Assistant Deputy Minister of the Branch. Each regional veterinary director has district veterinarians located at strategic points and usually in a geographic location with about 100 000 cattle. The Directorate has a staff of 716, including veterinarians, inspectors, technicians and clerical staff.

PREVENTION OF INTRODUCTION OF FOREIGN DISEASES —
Control of imports is the method used to prevent animal diseases from gaining entry into Canada from abroad. Inspectors examine all livestock, animal products, meat and meat products, and immigrants' clothing and baggage presented for entry into Canada, and decide on the disposal of such entries. All livestock and poultry entering Canada are subject to inspection at federal quarantine and inspection ports along the Canada-United States border, on the Atlantic and Pacific seaboards, along the St. Lawrence Seaway system, and at international airports. Any materials that might carry disease organisms from countries where serious animal diseases are present

are either prohibited entry or allowed entry under safeguard regulations. Imports of animals are allowed only from countries where serious foreign diseases are adequately controlled. All imported animals are subject to certification, inspection or quarantine on arrival in Canada. Disposal of garbage from foreign ships and aircraft, likely to be a disease hazard, is controlled at seaports and international airports. As a result of these and other precautions, Canada is one of the few countries remaining free of foot-and-mouth disease and this enhances the export position of our livestock industry.

ERADICATION OF DISEASES NOT ESTABLISHED IN CANADA —

When outbreaks of such diseases occur, all animals on the infected premises and all animals that have been exposed to infection are slaughtered. Owners are paid compensation based on the market value of the animals.

ERADICATION OF DISEASES ESTABLISHED IN CANADA — Two approaches are taken to the eradication of established diseases. One involves testing and slaughter of infected animals; the other, quarantine and treatment. In the main, the first approach applies to tuberculosis and every province comprises a TB-accredited area. Similarly, all provinces have been tested for brucellosis. The livestock owner receives compensation for his animals slaughtered under either of these programs. Such diseases as mange are controlled by quarantine on infected premises and treatment of the animals.

CONTROL OF DISEASES ESTABLISHED IN CANADA — Where eradication is not feasible, as with rabies and anthrax, reported cases are investigated and domestic animals are quarantined. Exposed animals are vaccinated for anthrax. Domestic pets in danger of exposure to rabies are vaccinated.

EXPORT CERTIFICATION — Health certificates on livestock exported from Canada, as required by the importing countries, are issued by the Animal Health Directorate.

MEAT HYGIENE DIRECTORATE

The principal objectives of the Meat Hygiene Directorate are to ensure that meat and meat products meet Canadian standards and the import standards of foreign countries, and to ensure the quality, nutritional value and safety of these products. Through its work, the Directorate also contributes to stability in the production and supply of meat.

The Canada Meat Inspection Act requires that all meat slaughtering and processing plants and storages dealing in interprovincial and export trade operate under the federal meat inspection system. Inspection is directed at the detection of diseases such as tuberculosis, brucellosis, parasitic infections and other diseases which may affect both animals and humans or which may affect animals only. In addition, the Directorate carries out monitoring and inspection procedures to guard against contaminants in meat and it controls labeling to ensure accuracy. It also provides statistical data to other branches of the Department to keep them informed on the state of health of the country's livestock industry.

At registered slaughtering plants, all animals receive an antemortem inspection to detect diseases that would make them unfit for food. A postmortem inspection is also carried out to assure the health status of each approved animal carcass.

Inspection extends to all aspects of processing of meat food products. All ingredients used in these products are examined for quality and quantity to ensure that there is no adulteration. In addition, non-food products are subjected to close scrutiny. Resident veterinarians and the inspection staff of the Directorate ensure that processing plants and their equipment meet the prescribed standards of construction to promote hygienic practice.

Carcasses and portions found unfit for food are condemned and destroyed under official supervision. As a further measure to prevent the spread of animal diseases, all vehicles used to transport live animals are cleaned and disinfected under supervision before leaving registered premises, and necessary precautions are taken to ensure that movement of finished products is in keeping with good sanitary practice.

The Directorate administers the Meat Inspection Act and Regulations and the Humane Slaughter of Food Animals Act and Regulations. The Director General develops and evaluates national policies on meat hygiene. The regional veterinary directors, through their associate regional veterinarians, direct meat inspection operations performed at the plant level. Each plant is under the supervision of an inspector-in-charge and his staff, who have full authority to implement regulations under the legislation pertaining to meat inspection and the humane slaughter of food animals.

The Directorate has jurisdiction over 450 establishments. The number includes 103 red-meat and 67 poultry slaughtering and processing plants, five horse-slaughtering plants, a rabbit-slaughtering plant and a buffalo-slaughtering plant. The other plants do no slaughtering but process either poultry or red-meat products. In addition,

317 outside approved storages are supervised, together with 23 rendering plants where condemned and inedible material originating in registered establishments is treated. Under agreements with various provinces, the Directorate also provides inspection services to 58 packing plants whose products do not move in interprovincial or international trade.

Some 1500 meat inspectors, about a fifth of whom are veterinarians, are employed by the Directorate. Its annual budget amounts to about \$33 million.

OPERATIONS DIRECTORATE

The Operations Directorate provides managerial direction for all field activities involving meat hygiene and animal health. The Directorate was established in 1978 to place more emphasis on operational management, to improve coordination of field activities, and to promote more-effective lines of communication for the operational staff and for industry groups. The Director General of Operations reports to the Assistant Deputy Minister of the Branch, and, through seven regional offices, administers legislation and policies dealing with animal health and meat inspection.

ANIMAL PATHOLOGY DIVISION

The Animal Pathology Division carries on research into animal diseases, provides diagnostic and other services, and acts as consultant on the registration, licensing and use of biologicals and other veterinary and pest-control products sold in Canada. The work of the Division is carried out in laboratories at Sackville, N.B., Grosse Ile and Ste. Anne de Bellevue, Que., Ottawa and Guelph, Ont., Winnipeg, Man., Saskatoon, Sask., Lethbridge, Alta., and Vancouver, B.C. Livestock owners and veterinarians may have diseases of livestock and wildlife diagnosed in the laboratories.

Research is directed mainly at diseases that cause serious economic loss in livestock and those that may be transmitted to humans. The Division studies the causative agents of animal diseases and methods of transmission, and is constantly developing and improving tests for detecting disease. It also produces diagnostic reagents used in disease control programs.

The Division has a staff of 398 including veterinarians, scientists, technicians, animal attendants and clerical staff. In an average year, 2.5 million blood samples are tested, and 50 000 pathological specimens are examined. The operating budget is about \$10 million annually.

EDUCATION AND DEVELOPMENT DIVISION

The Education and Development Division is responsible for the continued education of all Branch staff. This includes on-the-job training, career development, formal courses developed and conducted by the Division, diploma courses at three veterinary colleges, and regional seminars.

The Division is also responsible for the recruitment of veterinarians and veterinary students (summer employment); for liaison between the Health of Animals Branch and the three veterinary colleges, the Canadian Veterinary Medical Association, provincial veterinary associations and the Public Service Commission, regarding manpower planning and staffing; and for the training of students from developing countries in animal health and meat inspection duties, in co-operation with the Canadian International Development Agency (CIDA).

Research Branch

Assistant
Deputy
Minister

OPERATIONS
Director General
Eastern Region
Director General
Central Region
Director General
Western Region

Research Stations
Experimental Farms

Research Institutes,
Stations and Services

Research Stations
Experimental Farms

**PLANNING AND
EVALUATION**
Director General
Planning and
Evaluation Directorate

Research
Coordinators
Program Analysts
Contracts Analyst

FINANCE AND ADMINISTRATION
Director
Finance and Administration Division

The Assistant Deputy Minister, Research, is responsible for both scientific and administrative aspects of Branch activities in agricultural research and development, including general policy, liaison with other branches and departments, the provinces, industry and foreign governments, and the maintenance of good public relations.

ASSISTANT DEPUTY MINISTER'S OFFICE

The Assistant Deputy Minister is supported by a Senior Adviser, International Research and Development, who advises on the Branch's participation in programs in less-developed countries. A Special Assistant and an Executive Assistant are concerned with other activities, such as the Canadian Agricultural Services Coordinating Committee (CASCC).

OPERATIONS

A Director General in each of the Branch's three operational regions is responsible to the Assistant Deputy Minister for Branch activities in his area of jurisdiction. The Branch's operational structure comprises the Eastern Region (Quebec and the Atlantic Provinces), the Central Region (Ontario, including the national capital region), and the Western Region (the Prairie Provinces and British Columbia).

PLANNING AND EVALUATION DIRECTORATE

The Director General, Planning and Evaluation Directorate, advises the Assistant Deputy Minister on Branch planning, programming, coordination and evaluation, and on extramural relations in respect to agricultural research and development. The Directorate's staff includes Research Coordinators for animal, crop, food, production, protection and resource activities; Programs Analysts and a Contracts Analyst. Special advisers are attached to the Directorate when their expertise is required.

FINANCIAL AND ADMINISTRATIVE SERVICES

The Director of the Finance and Administration Division advises on policies and procedures affecting the management of resources used in research activities. The Chiefs of the Finance and the Administration Sections exercise functional authority over the application of such policies and procedures within the Branch.

EASTERN REGION

The Branch's Eastern Region covers the Atlantic Provinces and Quebec. Some 600 employees, including 160 scientists, staff the seven research stations, five experimental farms (including the new Senator Hervé J. Michaud Experimental Farm at Ste. Marie de Kent, N.B.) and the various substations in these provinces.

The regional headquarters office, located in Quebec City, mainly plays an administrative role, coordinating research projects and allocating human and financial resources. Some research is assigned to private firms and universities.

A total of about 500 research projects are under way at any one time in the Branch's Eastern Region. Although the work of the research establishments is aimed primarily at solving agricultural problems in their own areas, the results in many cases have much broader application.

RESEARCH STATION, ST. JOHN'S WEST, NFLD.

This station plays a leading role in the development of agriculture in Newfoundland. Receiving particular attention are fertility requirements for mineral soils, development of bogland for agricultural use, crop production practices, control of pests, and potato breeding. Half of the 70-hectare property is cultivated and used for experimental production of potatoes, cabbage, forages and cereals. Plant pathology, entomology and soil laboratories are operated at the Station, together with a National Soil Survey unit. In addition, the provincial veterinary laboratory, the provincial veterinarian and staff, and the provincial soil survey and land use units are located at the Station.

RESEARCH STATION, CHARLOTTETOWN, P.E.I.

Charlottetown is responsible for research in the Atlantic region on the production of forages, cereals, tobacco and certain vegetable crops grown for processing. Research is also conducted on potato diseases, nutrient requirements of potatoes, dairy cattle breeding, calf nutrition, and small-fruit evaluation. The Station also has regional responsibility for production economics research and provides leadership in the development of crop and livestock production systems. Located here are the seed potato inspection staff of the Food Production and Marketing Branch, and the record of performance swine-testing station. Also located at the Station are the technical services, field services, veterinary and dairy branches and the district agricultural office of the P.E.I. Department of Agriculture and Forestry. The Farm

Center, an office resource center and meeting facility for farm organizations, commodity boards and similar groups, is also located here.

RESEARCH STATION, KENTVILLE, N.S.

The Kentville Station in the Annapolis Valley is the horticultural research center for the Atlantic region. It deals with management, physiology, nutrition and breeding of tree fruits, small fruits and vegetables, and is the center for food processing research. Responsibility for research on pesticide residues and on poultry management for the whole region rests with this station. It is also well known for its work on protection of orchards against insects and on fruit storage.

Research on the adaptation and management of field crops, management of dikeland and upland soils, weed control on blueberry barrens, and cattle nutrition is carried out at the Experimental Farm at Nappan, N.S.

RESEARCH STATION, FREDERICTON, N.B.

At Fredericton, emphasis is placed on potato research and on studies of the nutritional requirements of dairy and beef cattle and sheep. The potato research program is aimed at solving the problems of the industry in Canada, and the work includes development of new and superior varieties, new technology for improved production, and the protection of potato crops from insects, diseases and weeds. The methodology for harvesting, storing and handling are other key aspects of the potato program.

The Station's studies on livestock and livestock feeds identify the particular opportunities for production in Atlantic Canada and build upon the comparative advantages of the region. Many projects are carried out in cooperation with the Nappan Experimental Farm. Other studies at the Station are in the areas of agricultural engineering, the environmental impact of agricultural chemicals, and the water-use efficiency of soils in the main agricultural production areas. The New Brunswick soil survey work is also centered at the Station. Research on fruit, vegetable and livestock-feed crops is carried out at the Senator Hervé J. Michaud Experimental Farm at Ste. Marie de Kent, N.B. The potato breeding isolation substation is located at Benton Ridge, N.B.

RESEARCH STATION, STE. FOY, QUE.

This station, located on the campus of Laval University, is the main center for field crops and soils research in Quebec. The research program embraces genetics and plant breeding of cereals and

forages, plant protection, plant physiology, soil genesis and classification, and soil fertility and management.

The experimental farms at La Pocatiere and Normandin are under the general direction of the Ste. Foy Station. At these farms, coordinated research is carried out on the soils, crops and livestock of the Lake St. John, Lower St. Lawrence and Gaspe regions. Herds included in animal breeding programs are located at La Pocatiere and Normandin.

RESEARCH STATION, ST. JEAN, QUE.

This station is the horticultural research center for Quebec and its program is focused on management and breeding of tree fruits and vegetables, plant nutrition and physiology, and control of insects, diseases and weeds. At the L'Assomption Experimental Farm, the research program is mainly centered on cigar, cigarette and pipe tobacco. Studies on flue-cured tobacco are carried out at the Lavaltrie substation.

Research on the production of vegetables on organic soils is carried out at the Ste. Clothilde substation; on fruit at the substation at Freleighsburg, and on grain corn and vegetables for canning at the L'Acadie substation.

RESEARCH STATION, LENNOXVILLE, QUE.

Lennoxville is the center for animal research in Quebec. The Station, which comprises 405 hectares, carries out a program that includes research on the nutrition, breeding and management of dairy and beef cattle, sheep and swine. Studies on forage crop management and soil fertility are also part of the program.

The Lennoxville Station is an important part of the Animal Research Center, which coordinates all government livestock research in Quebec. The Station also takes an active part in joint research projects with the agriculture and biology faculties of Quebec universities.

CENTRAL REGION

There are 16 establishments — research stations and institutes, experimental farms, and service units — under the Branch's Central Region administration. Staffing them are 380 scientists and about 1000 support personnel.

The Central Region differs in function from the eastern and western regional operations in that it contains the seven national institutes of the Branch. These establishments focus on basic, innovative re-

search and, consequently, their activities impinge on many programs of the Branch. In some programs such as food research, toxicology and pest management, the work of some Central Region establishments interacts with that conducted in other regions. In others, the entire Branch effort is carried out in the Central Region. The Director General of the Central Region is also responsible for all regional programs carried out by the Branch in Ontario through three research stations and three experimental farms. The regional headquarters office is located at Ottawa.

SERVICE UNITS

RESEARCH PROGRAM SERVICE — This service collects, classifies, stores and disseminates scientific and technical information. It provides graphic design, photographic and editing functions for scientific and technical publications, and technical information for Branch management and scientists. It also organizes exchanges of technology and of scientific missions with foreign countries and carries out intrabranch communications, including publication of a monthly newspaper.

OTTAWA SERVICES SECTION — This unit provides transport, receiving and shipping, and engineering shop support for the area establishments.

ANIMAL RESEARCH INSTITUTE, OTTAWA, ONT.

The Institute, with a staff of 270, is Canada's largest center for animal research. The principal purposes of the Institute are to investigate factors affecting the productive efficiency of livestock and poultry, and to play a leading role in the development of advanced systems to meet future trends in the agriculture industry. The laboratories and administrative headquarters are located on the Central Experimental Farm at Ottawa, and the cattle, sheep, swine, poultry and laboratory animals kept for experimental purposes are housed on the modern, 1100-hectare Greenbelt Farm on the outskirts of the city.

The programs carried out by the Institute range from breeding to nutrition and physiology. Research on nutrition includes such areas as nutritional physiology, and dietary requirements for major feed constituents and trace minerals. In the breeding and selection program, scientists are working to improve the productivity and efficiency of dairy cattle, sheep, geese and chickens. Other areas of study at the Institute include the reproductive processes of farm livestock; investigations on the effective management and use of animal wastes for

crop production, and studies on contaminants and pesticide residues in feedstuffs and their effects on animal tissues and products.

BIOSYSTEMATICS RESEARCH INSTITUTE, OTTAWA, ONT.

The Biosystematics Research Institute conducts research on the classification of insects, mites, nematodes, vascular plants and fungi. The Institute, with a staff of 58 scientists, also provides an identification service that is widely used by other government agencies, both federal and provincial, by universities and by individuals. It is responsible for developing and maintaining the Canadian National Collection of Insects and Mites, which contains more than 10 000 000 specimens, and the National Collection of Nematodes. It is also responsible for the National Mycological Collection, which has some 220 000 specimens, and the Agriculture Canada Vascular Plant Herbarium with over 645 000 specimens. The Institute's international fame is reflected in the frequent visits of foreign scientists to consult with its specialists and work with the collections.

CHEMISTRY AND BIOLOGY RESEARCH INSTITUTE, OTTAWA, ONT.

The scientists at this institute carry out a variety of research programs and provide important services to other Branch establishments. Research includes studies on winter survival of plants and related seed dormancy; host-parasite interactions of viruses and mycoplasmas; pathogenic fungi; symbiotic nitrogen fixation, which includes genetic modification of bacteria and the host plants; chemistry of pesticides, mycotoxins and pheromones; soil organic matter; subsidence of organic soils; and soil mineralogy. The services provided to Branch establishments include analytical chemistry, X-ray diffraction and electron microscopy.

ENGINEERING AND STATISTICAL RESEARCH INSTITUTE, OTTAWA, ONT.

The Institute provides engineering and statistical research and advisory services for the Research Branch and other departmental branches.

It carries out research and provides advice in the areas of food process engineering, mechanization of crop production, electronics and instrumentation, equipment for agricultural research and production, water resources and waste management, energy, and farm buildings. It provides the headquarters' function for the Canada Plan Service, supervises contract research in agricultural engineering, and maintains a source of agricultural engineering information.

The Institute provides Branch scientists and others with statistical advice and develops computer programs for statistical analysis. Research on mathematical statistics is carried out, especially in bioassay, multivariate analysis, experimental design, quantitative genetics, and time series and cluster analyses to solve a broad range of problems.

FOOD RESEARCH INSTITUTE, OTTAWA, ONT.

The principal role of the Food Research Institute is to obtain and apply knowledge of food composition, food quality and food-processing techniques to Canadian agricultural crops. The scope of the research program ranges from fundamental studies on biochemistry to investigations of quality factors that influence the acceptability of processed foods to consumers. Three main areas are emphasized: research on milk protein to determine its nature, reactions and uses; research on vegetable protein, now mainly rapeseed protein, to determine how it can be prepared for direct human nutrition and in what forms it can be used; and meats research. Flavor research and studies of structural carbohydrates are examples of research on quality. The staff includes specialists in microbiology, food technology, sensory analysis, and the chemistry and biochemistry of proteins, lipids and carbohydrates.

LAND RESOURCE RESEARCH INSTITUTE, OTTAWA, ONT.

The activities of this institute involve research, development and services related to Canada's land resources, which include soils, water and climate. Emphasis is on the integration of information relevant to the interactions of soils, climate and hydrology, and to the seasonal dynamics of weather, land use and food production. The Institute has responsibility for the following national programs: soil inventory; the Canadian Soil Information System (CANSIS), which provides basic information for land-use planning; and crop-information systems based on agrometeorological, statistical and remote sensing data. It also maintains an agrometeorological data archive. In addition to supporting research programs of the Branch, the Institute's activities contribute information essential to the federal and provincial governments in making decisions and setting policies affecting agriculture. The information is also of value to agribusiness and educational institutions.

RESEARCH INSTITUTE, LONDON, ONT.

The Research Institute in London concentrates on the examination of fungicides, herbicides and insecticides and certain biologically

active substances that occur in nature. Biochemical and biophysical studies are aimed at explaining the selective action of toxicants in a wide range of compounds and their transport characteristics. Other studies demonstrate the presence of toxins, antibiotics, repellents or attractants in organisms; followed by their isolation and chemical characterization; and their mode of action. Bacteriologists, chemists, biochemists, physiologists, toxicologists and pathologists make up the team of scientists undertaking this work.

RESEARCH STATION, OTTAWA, ONT.

This station, located on the Central Experimental Farm at Ottawa, serves eastern Ontario, western Quebec and, through associated experimental farms, the northern clay belt. Major aspects of its work are the breeding of feed grain and forage varieties, and ornamentals research. Control of crop diseases and pests, management of crops, and plant genetics, cytology and physiology are important elements in the Station's program. It is also responsible for the management of the Central Experimental Farm and for providing services to other establishments on the farm.

The experimental farm at Kapuskasing, Ont., is concerned with problems of crop management and beef cattle production in northeastern Ontario and northwestern Quebec. The work of the experimental farm at Thunder Bay, Ont., is concentrated on the adaptation and management of cereal, forage and potato crops in northwestern Ontario.

RESEARCH STATION, VINELAND, ONT.

At this station, located on the Niagara Peninsula, research is directed toward the protection of tree fruit, small fruit, and vegetable crops. The development of pest-management programs is receiving special emphasis and considerable success has been achieved in minimizing the use of commercial pesticides without loss in product quality. The scientific disciplines represented at this station include chemistry, engineering, entomology, nematology and plant pathology.

The Smithfield Experimental Farm, near Trenton, Ont., conducts research on production and processing of horticultural crops. Breeding, selection and cultural management of apples, along with breeding and selection for tomatoes for processing, are emphasized.

RESEARCH STATION, DELHI, ONT.

This station is the principal research establishment of the Branch for work on tobacco. Scientists here investigate all aspects of tobacco

culture, including breeding and genetics, physiology, management, control of pests and diseases, and curing. A special program is aimed at developing tobacco less hazardous to health.

RESEARCH STATION, HARROW, ONT.

The broad objective of this station is to solve agricultural problems affecting crop production in southwestern Ontario. A large number of crops are included in the program, although emphasis is placed on tree fruits, vegetables, corn, wheat, white beans, burley tobacco and soybeans. Studies on soil fertility and irrigation, genetics and breeding, cultural practices, pest and disease control, and pesticide testing are also included. Entomologists, geneticists, plant pathologists, physiologists, plant breeders, herbicide specialists, horticulturists and soil specialists are all on the staff of this station.

Research on soil management in relation to crop production is carried out at a substation at Woodslee. A Central Region weed research program is based at Harrow, with scientists at other centers contributing to the program.

WESTERN REGION

The Director General of the Branch's Western Region is responsible for the operation of 15 research stations, three experimental farms and several substations in the Prairie Provinces and British Columbia.

Each research establishment has a varied program of experimentation designed to solve agricultural problems and enable farmers to produce more and market better quality food products. Studies involve all major aspects of the food chain — soils, plants and animals — and there is supportive research on diseases, pest and weed control, food processing and storage, and maintenance and improvement of environmental quality.

Staffing the regional establishments are some 350 scientists and 950 support personnel. Among the scientists are representatives of all biological, chemical and agricultural sciences, as well as physicists, mathematicians, statisticians and engineers.

The Western Region administration has its headquarters in Saskatoon, Sask. There is close cooperation with the other regional administrations of the Branch, and with provincial governments, other federal departments, international agencies, farm organizations, agricultural industries and universities. Three of the research stations are located on university lands and the scientists at those centers contribute to the universities as honorary professors and lecturers.

RESEARCH STATION, WINNIPEG, MAN.

World-renowned for the development of rust-resistant wheats, this station is Canada's main center of research on cereal breeding, and diseases and pests of cereal crops. It is also the main center for study of insect pests of stored cereals and their products. The Manitoba unit of the National Soil Survey is located at Winnipeg.

The aim of the research conducted by the 43 scientists in cereal breeding, plant pathology and entomology is to achieve a better understanding of parasites (diseases and pests) and interactions with their hosts, and to develop new, improved varieties resistant to the parasites. Many specialized disciplines are represented. They include mycologists, physiologists, virologists, geneticists, cereal breeders, toxicologists, insect ecologists and fumigant specialists.

RESEARCH STATION, MORDEN, MAN.

This station is the main center in the Prairie Provinces for horticultural research and research on special field crops — buckwheat, field peas, flax, grain corn and sunflowers. Morden also operates a program to assess new crops. Many kinds of crops are evaluated in this program, from those used for spice and flavoring oils to others with potential for protein or sugar production. In horticulture, the emphasis is on developing new varieties of potatoes and ornamental plants that are suitable for growing conditions on the prairies.

RESEARCH STATION, BRANDON, MAN.

A major part of the research program at Brandon is directed at breeding and reproduction physiology of beef cattle and swine. Equally important is the crop program on barley breeding and crop management, particularly of forage crops. A third important area is soil research with emphasis on soil chemistry and fertility, and on problems associated with saline soils. Weed control research rounds out the program.

RESEARCH STATION, REGINA, SASK.

This station is the center for weed research in the Prairie Provinces. It deals with problems of cultural and chemical control of weeds in various crops and on native grasslands, with problems of effective application of chemicals, and with the fate of chemicals in the plants and in the soil. The seed section is the main increase and distributing center for new varieties of cereal and forage crops developed by departmental research establishments.

RESEARCH STATION, MELFORT, SASK.

This station serves the research needs of the agriculture industry of central and northern Saskatchewan, but the results of much of the research work, particularly on forage harvesting and utilization, are applicable over a much broader area. Melfort is the major center in Western Canada for work on forage production, harvesting and utilization, with emphasis on high-forage, growing and finishing rations for beef cattle and lambs. A major cow-calf management project is also carried out in cooperation with the Saskatchewan Department of Agriculture. Research on cereal, oilseed and special crops production, harvesting and utilization (swine and sheep feeding trials) is also a high-priority undertaking and involves studies on variety evaluation, soil and crop management (including minimum tillage), soil fertility and weed control.

RESEARCH STATION, SASKATOON, SASK.

Although most of the research carried out at Saskatoon concerns agricultural problems of central and northwestern Saskatchewan, the results have much wider application. The Station, situated on the campus of the University of Saskatchewan, is the center for research on oilseeds, especially rapeseed. Entomologists pursue intensive studies on grasshoppers, wireworms, blackflies and mosquitoes. These studies include research on insect nutrition, physiology and ecology. A major research program involves the study of the root rots of cereals and diseases of forage crops. Attention is focused also on breeding forage grasses and legumes, and the production of a 'bloat safe' alfalfa variety has a high priority. Work on soil fertility, weeds and crop management is carried out at the substation at Scott.

RESEARCH STATION, SWIFT CURRENT, SASK.

This station is concerned primarily with the agricultural production problems of the most arid areas of Western Canada. Soil studies on dryland, related to conservation of moisture and control of wind and water erosion, and the utilization of wind and solar energy, combine the work of soil physicists, soil chemists and agrometeorologists. A similar team approach is used in research on various aspects of irrigation (seepage and drainage, irrigation methods and crop management, and the use of sewage effluent, for example), and on soil salinity and the reclamation of saline areas. A strong forage crop team is concerned with the development of new varieties of winter-hardy, drought-tolerant grasses and legumes, and improved methods of managing these crops under dryland conditions. Agricultural engi-

neers are involved in the design of research equipment for Western Canada. Other studies include the nutrition and management of turkeys, nutrition of beef cattle and sheep, management of pastures and the evaluation of horticultural crops.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

This experimental farm is concerned with the interests and problems of the farmers in southeastern Saskatchewan. Its research program includes studies on crop and soil management in the production of cereal, oilseed, forage and new crops. Yield tests of crop varieties are included in the program.

RESEARCH STATION, LETHBRIDGE, ALTA.

The Lethbridge Station studies agricultural production problems of southern Alberta on both irrigated and dryland soils. It is also the main Canadian center for the study of insects that affect animals and for research on irrigation of farmlands. The comprehensive program, one of the most diversified in the Branch, involves plant science, plant pathology and physiology, soil science, animal science, crop entomology and animal parasitology. With more than 400 hectares of land and 80 scientists, representing almost every biological, chemical and agricultural discipline, the Station is the Branch's largest establishment. Among the projects under study are problems of dryland and irrigated farming, range management, cereal and forage breeding, dairy cattle, beef cattle and sheep breeding, ruminant and poultry nutrition, and livestock and cereal insects. Research at Vauxhall, Manyberries and Stavely substations is directed from Lethbridge.

A new office-laboratory complex, opened in 1977, houses the offices, laboratories and library of the Station. It also contains the district, regional and Irrigation Division offices of Agriculture Alberta and district offices of Agriculture Canada's Food Production and Marketing Branch.

RESEARCH STATION, LACOMBE, ALTA.

Research at Lacombe is aimed at increasing the productivity of crops and livestock in central Alberta. Its activities include development of improved techniques for plant breeding and selection, development of improved cereal crop varieties, evaluation of production losses caused by plant diseases and weeds in cereal, oilseed and forage crops and development of effective control methods. Research on perennial forages is concentrated on the effects of fertilizers and management practices on their productivity and longevity. An impor-

tant part of the work at the Station is the study of the fertility and productivity of the gray wooded, black and dark brown soils in the region. At the Vegreville substation, work is centered on the management and improvement of solonetzic soils. Among the major projects at Lacombe are the studies concerning livestock and meat. They include the evaluation of imported cattle breeds for production efficiency; research on the improvement of livestock breeding and selection for greater efficiency in meat production, and studies of the factors that affect the preservation and eating quality of meat.

RESEARCH STATION, BEAVERLODGE, ALTA.

Beaverlodge is the coordinating center of the Northern Research Group conducting research in the vast northwest area of Canada. The other components of the Group are the experimental farms at Fort Vermilion, Alta., and Prince George, B.C. The prime function is to serve the Peace River region, where there are an estimated 7 689 200 hectares of arable soil and another 4 047 000 hectares suitable for grazing.

The staff is developing more-productive, early maturing, hardy varieties of cereal, forage, oilseed and horticultural crops. They are also studying the numerous types of soil on which these crops are produced, ways to clear and develop bushland, particularly for pasture and hay production, management of tame and wild pollinators of legumes, and management of livestock. Greenhouse, growth-chamber and laboratory studies of specific problems supplement field trials in this long-day, short-summer environment. Studies on climate-crop relationships are also carried out at Beaverlodge.

RESEARCH STATION, KAMLOOPS, B.C.

The Kamloops Station serves as the center of research on problems of the ranching industry in British Columbia. The research program emphasizes studies on rangeland vegetation, livestock-carrying capacity, range management, and range reseeding. Other studies are carried out on hay and pasture crops on dry and irrigated land, use of fertilizers on native and cultivated forages, and effects of poisonous plants on livestock. More than 4800 hectares of rangeland have been made available to the Station for these investigations.

RESEARCH STATION, SUMMERLAND, B.C.

The research work carried out at Summerland, in the heart of the Okanagan, is aimed at solving the problems encountered by producers, packers and processors of tree fruits and grapes and, through this, helping them to market high-quality products for Canadian con-

sumers. The research program includes studies on breeding tree fruits and grapes and the control of their pests and diseases; fertilizer and irrigation requirements of these crops; handling and storage of fruit; and processing of fruits and other food products.

A number of scientific disciplines are brought to bear on research problems, including agricultural engineering, biochemistry, entomology, plant pathology and physiology, plant breeding and nutrition, microbiology, food technology, chemistry and soil physics.

RESEARCH STATION, AGASSIZ, B.C.

This station is one of the five original research establishments of the Department. In plant research, emphasis is placed on the management and physiology of vegetables, forage crops, silage corn and turf grass; on soil fertility and nonsoil media, and on weed control. Cultural experiments with raspberries and strawberries are conducted at the Abbotsford substation. Animal research at Agassiz includes studies on the nutrition, management and physiology of dairy cattle, poultry and rabbits, as well as studies on dairy beef and on yellow fat in beef carcasses.

RESEARCH STATION, VANCOUVER, B.C.

At this station, located on the campus of the University of British Columbia, a comprehensive research program is carried out on plant viruses, soil, and insects and diseases of crops of the lower mainland. The Station is the Branch's key center for studies on plant viruses and virus vectors. Viruses affecting small fruits and forage crops are included in the research program. Chemical, immunochemical, biophysical, and physiological and histological studies all play a part in the investigations. Soil research is centered in the British Columbia unit of the National Soil Survey located at the Station; besides soil surveys, work is done on soil genesis and classification. Biology and control studies are conducted on insect pests of vegetables and small fruits. Aphids are of special interest.

RESEARCH STATION, SIDNEY, B.C.

This station, just north of Victoria, serves horticulture on Vancouver Island and the lower mainland of British Columbia. Since the climate is particularly suitable for growing a wide diversity of specialized horticultural crops that include holly, bulbs, flowers, ornamental trees and shrubs, small fruits, vegetables and greenhouse crops, research efforts are concentrated mainly on these crops. Entomologists, plant pathologists and physiologists, and ornamental horticulturists consti-

tute the scientific team attacking the problems. Development of tissue culture techniques for the elimination of viruses and for the rapid propagation of plants is an important part of the research program. The Post Entry Quarantine Station is also located at the Station.

Agricultural Products Board

This Board consists of three members, who are appointed by the Governor in Council. The Board's chairman and members are the same officers who make up the Agricultural Stabilization Board, and its decisions and recommendations are carried out by the same staff. The Board is empowered by the Agricultural Products Board Act to buy, sell or import agricultural products, and to administer food contracts and other commodity operations. It may purchase and hold stocks of agricultural products for later sale, emergency relief in Canada or assistance programs abroad. These actions help to provide Canadian producers with stable incomes and also ensure that a ready supply of the food products consumers regularly purchase will be available.

Agricultural Stabilization Board

This Board administers the Agricultural Stabilization Act, which was passed in 1958 and amended in 1975. It consists of three members, and is advised by a committee of farmers and representatives of farm organizations from across Canada. The Chairman of the Board and the other two members are senior officers of the Department.

The aim of the Board is to help farmers obtain a fair share of the national income and to achieve an equitable balance between the prices farmers receive for key agricultural products and the cost of the goods and services they buy.

Under the terms of the Act, the following commodities must be supported at not less than 90% of their average price over the previous 5 years, with adjustments according to production costs: cattle, hogs and sheep; industrial milk and cream; corn and soybeans; and oats and barley not produced in the area designated in the Canadian Wheat Board Act. These prices remain in effect for 12 months. Other commodities may be supported at a price determined by the Governor in Council for periods prescribed by the Council.

The Board supports prices by buying products outright at prescribed prices, by granting deficiency payments or by making direct payments to producers at a fixed rate.

The Board provides funds for the support of the dairy industry through the Canadian Dairy Commission. Such funds, along with other Agricultural Stabilization Act payments, amount to more than \$300 million annually.

The Board has a small staff that is assisted by the commodity divisions of the Food Production and Marketing Branch to implement support programs. Calculating and recording of payments is done by staff located in the Subsidy Payment Section. The Department's own computer is utilized in conjunction with other computers in the cheque-issuing procedure. Altogether, about 75 officers, clerks, machine operators and others are engaged in administering price stabilization programs.

Canadian Dairy Commission

The Canadian Dairy Commission was established by Act of Parliament in 1966. The Commission is appointed by the Governor in Council and consists of a chairman, a vice-chairman and one other member. The commissioners are directly responsible to the Minister of Agriculture and their offices are in Ottawa. To assist the Commission with advice on production and marketing matters, there is a consultative committee of nine members, appointed by the Minister, who represent a variety of interests in the dairy industry.

The objective of the Commission is to provide efficient producers of milk and cream with the opportunity of obtaining a fair return for their labor and investment, and consumers with an adequate supply of quality dairy products.

The Commission, under its authority to purchase and sell dairy products, supports the market price of major processed products, principally butter and skim milk powder. The prices that producers receive for industrial milk and cream are related to these product support prices.

The Commission also makes direct payments to producers from funds provided by the Government, to supplement returns from the market and to make dairy products more affordable for consumers. These payments are made under a quota system to individual producers.

The supply of industrial milk and cream is managed through a market share quota program administered under the federal-provincial Comprehensive Milk Marketing Plan by the Canadian Milk Supply Management Committee. The Committee is composed of representatives from producer marketing boards and provincial governments, and is chaired by the Canadian Dairy Commission. The Dairy Commission directs the development of policy and coordinates the administration of individually held market share quotas through provincial marketing agencies, which transfer market shares between producers and between provinces. The total number of market share quotas is adjusted to changes in the requirements of the market.

Canadian Grain Commission

COMMISSIONERS

Assistant Commissioners
(Primary Elevators)
Grain Appeal Tribunal
Supervisor, Grain Futures Act

EXECUTIVE
INSPECTION DIVISION
WEIGHING DIVISION
ECONOMICS AND
STATISTICS DIVISION
GRAIN RESEARCH LABORATORY

The Canadian Grain Commission administers the Canada Grain Act. Three Commissioners are appointed by the Governor in Council and, from headquarters at Winnipeg, are responsible for the operation of five divisions within the Commission. Offices are located in 18 centers across Canada, with a total staff of about 900 people. The Eastern Division of the Commission includes all offices east of Thunder Bay, and the Western Division includes Thunder Bay and west.

The five Assistant Commissioners, appointed by the Governor in Council, are located at Winnipeg, Regina, Saskatoon, Calgary and Harrow, Ont. Their responsibilities are to maintain personal contact with the producers and licensees of the Commission at country points; investigate producers' complaints and inquire into any matter in which the Commission has jurisdiction; keep the Commission informed on general agricultural conditions in the grain-growing areas; and inspect licensed primary elevators to ensure adherence to provisions of the Canada Grain Act and Regulations.

There is a Grain Appeal Tribunal at Winnipeg for the Western Division and provision for one in the Eastern Division. The Commission appoints one of its qualified grain inspectors to act as Chairman of the Tribunal and eight other persons who are qualified inspectors within the grain trade. A quorum consists of the Chairman and two other members. The function of the Tribunal is to examine appeals by persons dissatisfied with the grade assigned by an inspector on an official inspection of a sample of grain in which the person requesting the appeal has an interest. The Tribunal's decision is final.

The Commission constitutes Western and Eastern Grain Standards Committees from producers, government and industry. They meet as required by the Commission to review and recommend proposed changes in grades of grain and to recommend the primary and export standard samples for the current crop year.

Also, the Commission administers the Grain Futures Act which involves the supervision of grain futures trading.

EXECUTIVE DIVISION

This division consists of the Executive Director, Secretary, Financial Officer and supporting staff. It is responsible to the Commission through the Executive Director who also acts as coordinator of the total operation of the Commission.

The Division is responsible for general administration in carrying out provisions of the Canada Grain Act. This includes implementing the policies and decisions of the Commission; coordinating the work of the various divisions; general accounting, financial forecasting,

planning and budget reporting; and developing and implementing long-range programs.

INSPECTION DIVISION

The Inspection Division is responsible for grading of grain. It has district offices at Montreal and Chatham in the Eastern Division, and at Thunder Bay, Winnipeg, Saskatoon, Calgary and Vancouver in the Western Division. Additional staff is located at the other main terminal and transfer elevator points across Canada.

In Western Canada, the Division samples and grades all grain received into or shipped from licensed terminal elevators; operates laboratories at Vancouver, Winnipeg and Thunder Bay for protein testing of carlots and vessel cargoes of wheat; and provides a free grading service on samples of grain submitted by farmers.

In Eastern Canada, it is responsible for sampling and official grading of all Canadian-grown grain loaded for export through licensed transfer elevators. Sampling and inspection service is provided on request at Montreal, Toronto and Chatham for eastern-grown grains not covered by the export control inspection. Free grading service is also provided in samples of grain submitted by farmers.

The Division's activities also include sampling and grading all grain in store in licensed terminal and transfer elevators at the official weighover of stocks; issuing the Certificate Final on export shipments of Canadian grain; examining and reporting on the condition of equipment and facilities in licensed elevators as directed by the Commission; supervising programs for control of infestation in grain; preparing standard samples for the Grain Standards Committees; and advising them on factors relating to the grading of Canadian grain.

WEIGHING DIVISION

The Weighing Division supervises the weighing of all grain received at and shipped from licensed terminal elevators on the Pacific seaboard and at Churchill and Thunder Bay. In eastern Canada, it supervises the weighing of grain at licensed transfer elevators and provides direct weighing service on a request basis at the seaboard points. All grain stored in these terminal and transfer elevators is weighed over at least every 30 months as part of an audit of operations.

Officers of the Division also conduct investigations at these licensed elevators when excessive overages or shortages occur in carlot or vessel receipts or shipments of grain. Scale inspectors examine

and test more than 500 receiving and shipping scales, with capacities from 45 to 70 tonnes located in the 51 licensed terminal and transfer elevators, and maintain continuing inspection of all weighing and elevation equipment in these elevators to ensure accuracy in weighing. Divisional officers also review the plans for construction or alterations of terminal or transfer elevators to ensure that scales and associated handling equipment meet Commission requirements.

ECONOMICS AND STATISTICS DIVISION

This division consists of the Statistics, Registration, Computer Systems and License and Bonding sections. It gathers information and publishes statistics on the handling and storage of grain within the Canadian elevator system; prepares audit statements covering the operations of terminal, transfer and primary elevators, and verifies insurance carried on grain stocks; receives applications, issues licences and secures guarantee bonds for the operation of the various classes of licensees defined in the Canada Grain Act; controls the issuance of grain elevator receipts by registration and cancellation; co-ordinates the protein binning program at Vancouver and Thunder Bay; serves in an advisory capacity on matters of an economic nature, such as audits and tariffs, falling within the jurisdiction of the Commission; and provides documentation and records services for the Commission and the grain trade.

GRAIN RESEARCH LABORATORY

The Laboratory is the major Canadian center for research on the quality of cereal grains and oilseeds. Its principal responsibilities are to assess the quality of each new crop of grain; monitor the quality of grain shipments; evaluate the quality of new varieties of grain produced by plant breeders; provide technical laboratory services; conduct applied and basic research in grain quality, and matters related to grain and grain products; and provide technical services as required by the Commission and other government departments or agencies.

Canadian Livestock Feed Board

BOARD MEMBERS

Advisory Committee

FINANCE DEPARTMENT
PROGRAM DEPARTMENT
TRAFFIC DEPARTMENT
ECONOMIC RESEARCH DEPARTMENT

The Canadian Livestock Feed Board is a Crown Agency, established by the Livestock Feed Assistance Act of 1966. Under this Act, the objects of the Board are to ensure the availability of feed grain to meet the needs of livestock feeders in Eastern Canada and British Columbia; the availability of adequate storage space in Eastern Canada for feed grain to meet the needs of livestock feeders; and reasonable stability and fair equalization of feed grain prices in Eastern Canada and in British Columbia.

The Board is appointed by the Governor in Council and consists of three to five members, one of whom is chairman and one vice-chairman. The Board, which is directly responsible to the Minister of Agriculture, has its headquarters at Montreal, with a branch office at Vancouver. Under the Act, an advisory committee of five to seven members, appointed by the Governor in Council, meets periodically to study and review all matters relating to feed grain transportation, storage, prices and utilization. The committee reports its findings to the Minister and the Board.

The Board subsidizes part of the cost of transporting feed grains to Eastern Canada and British Columbia, and in doing so generally attains a fair equalization of feed grain prices in Eastern Canada and in British Columbia, an objective of the Act. The total expenditures under the equalization program are affected by trends in livestock production, production of feed grains and forage in Eastern Canada and British Columbia, and the market price relationships of Canadian and American grains. The Board's expenditures for freight equalization and storage assistance during the fiscal year ended March 31, 1978 amounted to \$11 million. To further its objectives, and when authorized by the Governor in Council, the Board may purchase, ship, store, handle and sell feed grains. Also, negotiations may be carried out to obtain adequate storage space for feed grains in Eastern Canada.

The Board's staff is organized as follows: The *Finance Department* operates a financial management and control system, develops and maintains data analysis reporting systems and administers personnel services. The *Program Department* is responsible for planning, organizing and directing the administration of the Feed Freight Equalization Program and the Storage Improvement Program at the feed mill level. It is also responsible for reporting on feed grain supplies, prices and market activities. This activity includes the monitoring of feed grain prices in various regions of Canada. The *Traffic Department* reviews and analyzes transportation and handling costs, determines least-cost routings, studies trends and developments in transport and handling industries, and participates in freight rate negotiations. The *Economic Research Department* conducts a continuing study of feed

grain requirements and measures impact of alternative equalization programs. It also conducts feasibility studies on need and economic advantage of additional storage facilities in Eastern Canada, as well as economic studies on various other aspects of the grain-livestock sector, and gathers and maintains price and cost data of grains and mixed feeds.

Farm Credit Corporation

CORPORATION
MEMBERS

Advisory Committee

HEAD OFFICE
Executive Group
Lending Operations
Loan Administration and
Special Programs
Research and Farm Management
Administration
Financial
Personnel Services

REGIONAL OFFICES
Loans
Farm Services
Administration
Accounting

FIELD OFFICES

The Farm Credit Corporation is a Crown Agency established by the Farm Credit Act of 1959 as successor to the Canadian Farm Loan Board. Under the Act, the FCC makes long-term mortgage loans to assist Canadian Farmers in organizing viable farm businesses. It is also responsible for administering the Farm Syndicates Credit Act, whereby loans are made to groups or syndicates of three or more farmers for the joint purchase of machinery, buildings and installed equipment.

The Corporation, consisting of five members, reports to Parliament through the Minister of Agriculture. The Chairman, who is the chief executive officer, is responsible for policy determination and the overall management of the Corporation's affairs. The Vice-Chairman is director of operations and assumes the powers and functions of the Chairman in his absence.

An advisory committee, appointed by the Minister of Agriculture, advises the Corporation with respect to such farm credit matters as are referred to it by the Minister or the Corporation. The 10 members of this committee, the majority of whom are farmers or officials of farm organizations, provide nationwide representation on behalf of the agriculture industry.

The head office of the Corporation is at Ottawa and there are regional offices at Kelowna, B.C.; Edmonton, Alta.; Regina, Sask.; Winnipeg, Man.; Guelph, Ont.; Ste. Foy, Que.; and Moncton, N.B. The Moncton office serves the four Atlantic Provinces. Each regional office is headed by a manager and has within it staff and facilities for making loans, providing farm services and performing the necessary administrative work and accounting for the area it serves.

The Corporation has resident credit advisers located in all major

agricultural areas in Canada. They advise applicants on the best use of available resources in the organization, development and operation of their farm enterprises as economic family farm units. They accept loan applications, carry out the Corporation's appraisal work and perform post-loan advisory services as required.

The Corporation's lending operation is decentralized to the extent that regional managers have authority to approve or refuse loans. Other functions performed at the regional level include the disbursement of loan funds, the general administration of loan amounts relating to the maintenance of mortgaged security and repayments by borrowers, the provision of advisory services, the recruitment and training of regional staff and the establishment of appropriate liaison with other provincial and federal agricultural agencies and institutions.

The function of the head office is to determine and enunciate general policy, to ensure uniform interpretation and application of the legislation and to exercise administrative and financial control.

Information booklets entitled *Farm Credit* and *Farm Syndicate Loans*, which detail the provisions of the two Acts administered by the Corporation, are available from any of its offices.

National Farm Products Marketing Council

The National Farm Products Marketing Council, established in 1972 under the Farm Products Marketing Agencies Act, reports to Parliament through the Minister of Agriculture. The Council, appointed by the Governor in Council, consists of chairman, vice-chairman and six other members. Each of Canada's major regions — western, central and Atlantic — are represented. Although at least half of the Council members must be primary producers, consumers, labor and business also have representation.

The Council advises the Minister on all matters pertaining to the establishment of marketing agencies. In coordinating producers' efforts to create national agencies, the council conducts public hearings to determine the merit of a proposed plan and reports its findings to the Minister. It also reviews the operations of established agencies and assists them in the promotion of more-effective marketing of farm products. Council activities are conducted in consultation with the provinces.

The objectives of the Council are to maintain and promote an efficient and competitive agricultural industry; to promote a fair return for producers; to improve and develop markets; to promote the development of new products, and to assure consumers of an adequate supply of farm products. The Farm Products Marketing Agencies Act provides for marketing agencies to regulate in interprovincial and export trade any farm product with the exception of those regulated by the Canadian Wheat Board and the Canadian Dairy Commission.

The first application for a national agency was submitted by egg producers, and the Canadian Egg Marketing Agency was established in December, 1972. In 1973, the National Turkey Marketing Agency was established. Other marketing plans are being considered, including a proposal received in August, 1976 for a National Chicken Marketing Agency.

Legislation

The Minister of Agriculture is responsible for the following statutes:

Advance Payments for Crops Act
Agricultural Products Board Act
Agricultural Products Co-operative Marketing Act
Agricultural Products Marketing Act
Agricultural Stabilization Act
Animal Disease and Protection Act
Canada Agricultural Products Standards Act
Canada Dairy Products Act
Canada Grain Act
Canadian Dairy Commission Act
Cheese and Cheese Factory Improvement Act
Cold Storage Act
Crop Insurance Act
Department of Agriculture Act
Experimental Farm Stations Act
Farm Credit Act
Farm Products Marketing Agencies Act
Farm Syndicates Credit Act
Feeds Act
Fertilizers Act
Fruit, Vegetables and Honey Act
Grain Futures Act
Hay and Straw Inspection Act
Humane Slaughter of Food Animals Act
Inspection and Sale Act
Livestock and Livestock Products Act
Livestock Feed Assistance Act
Livestock Pedigree Act
Maple Products Industry Act
Meat Inspection Act
Milk Test Act
Pest Control Products Act
Pesticide Residue Compensation Act
Plant Quarantine Act
Prairie Farm Assistance Act
Seeds Act
Wheat Co-operative Marketing Act
Criminal Code, Sec. 188 Racetrack Supervision

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